

Pump Laser Specifications	Value
Wavelength	1064.15 nm
Linewidth	< 15 pm
Spatial mode	TEM00
Beam Roundness	>90%, circular
Beam Diameter	< 3 mm 1/e ² points
Pointing stability	< 100 micro radians
Pulsewidth	<20 ns
Rep-rate	250 Hz
Energy per pulse	>30 mJ
Energy Stability	< 3 % rms
Average Power	> 7.5 W
Polarization	Better than 500:1
Triggering	External TTL

UV NLO Specifications	Value
Online Wavelength	290.7 nm
Offline Wavelength	(NASA Supplied)
Online energy	1 mJ nominal
Offline energy	(NASA Supplied)
Beam Diameter	<1.5 mm at exit
Divergence	~ 3 mrad
Pulsewidth	<15 ns
Rep-rate	250 Hz
Average Power	~ 0.25 W at 290.7 nm & 250 Hz
Polarization	Better than 500:1
Switching	(NASA Supplied)

UV Laser

Physical Parameters

Laser Head

- Size: (L x W x H) 24" x 10" x 8"
- Weight 30 lbs

Power Supply & Chiller

- Size: (L x W x H) 19" x 19" x 19"
- Weight 70 lbs

Umbilical 6 feet

Cooling Water based chiller

Power 10 A, & 110VAC for entire system

Stability Less than 15% average power variations over a 4 hour continuous run